

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: Peter Barville <peter@barville.demon.co.uk>
Subject: [2774] 14060 Data QRM
Message-ID: <SpXfdPAJnhFyEwoV@barville.demon.co.uk>

Hi Folks

Thought you might like to see a copy of my recent e-mail to Jules,
CN8CG:

=====

I use 20m a great deal for QRP cw, and consequently the area of the band around 14060kHz (the internationally agreed QRP cw frequency). Although this part of the band is well within the cw section of the band plan, cw operators (QRP or QRO) have been suffering many difficulties recently from data transmissions (Pactor, Clover etc) which are really lower in the band they should perhaps be.

One problem, I know, is that the data systems do not hear (or recognize) cw transmissions, and will therefore quite often come up on top of already established cw QSO's, thus causing severe QRM. In the worst case, of course, it may mean the enforced termination of the cw contact.

I hope you don't mind me writing to you, but I believe you (CN8CG) tend to use 14060, or just below, when using one of the data modes and I wondered whether you are aware of the problems currently being caused to the many cw qso's in this part of the band?

I don't suppose you will be too keen to try it, but you'd certainly be very popular if you were to come up with QRP cw on 14060 instead, Hi! As far as I know, you'd be the first to come with QRP cw from CN8, and would be much in demand from the other QRPers on the frequency. It's a real FUN mode, so maybe you'll give it a go sometime?
Best 73

=====

You may *not* be surprised to learn that I have (to date) not received any reply, although I cannot be sure the e-mail will have reached him.
72

--

Peter G3XJS

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: af852@rgfn.epcc.edu (William R Colbert)

Subject: [2783] coffee tins
Message-ID: <9608180101.AA16696@rgfn.epcc.Edu>

Have always used the tins for parts storage - never thought about using them as project boxes. Thanks for the idea Brad. Can see it now - Mocha Mint receiver, Hazlenut transmitter, Irish Cream antenna tuner, etc.

On a more serious note: Sunelco has an excellent catalog/reference book and they are located on the web at: <http://www.sunelco.com>.

another couple of sites worthy of a look are:

<http://www.sierrasolar.com> and www.asis.com/aee/

Haven't been on them for a while, but believe there are links to other alternate energy sites.

73 Ray

--

Ray Colbert, W5XE/V31XE, El Paso, Tx

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: Marshall Emm <75230.1405@CompuServe.COM>
Subject: [2776] CQC QRP Contest
Message-ID: <960817193413_75230.1405_HHB44-1@CompuServe.COM>

One weeks and counting-- the Colorado QRP Club's Summer QSO party is just around the corner. The rules follow, and anyone who'd rather send a CQC number than a power level STILL has plenty of time to join the club. Applications by e-mail are find-- we'll e-mail your CQC number on your assurance that the check's in the mail. If your check doesn't turn up, we cancel your number.

For CQC info and membership send e-mail to 74602,3317 or visit our Web site:
<http://ourworld.compuserve.com/homepages/mtech/cqc.htm>

73
Marshall (AA0XI)
VP CQC

The Colorado QRP Club announces the Summer QRP QSO Party

Date/Time: August 25, 1996 1800 - 2359 UTC

Exchange: RS(T), State/Province/Country, First Name, and
Member # if CQC member, power output if not
Example: 579 CO Jim NR 04

Suggested frequencies
CW 1825, 3560, 3710, 7040, 7110, 14060, 21060,
21110, 28060, 28110
SSB 1910, 3985, 7285, 14285, 21385, 28385

No contacts on 30, 18 and 12 meters allowed

Classes: Single Band, Multi-band, Novice/Tech (all single operator only)

QSO Points:
CW- CQC member 6 pts, non-member 4 pts
SSB- CQC member 3 pts, non-member 2 pts

Multipliers:
States/Provinces/Countries worked.
The same station may be worked on different bands
for additional QSO points and multipliers. Contacts on
the same band using a different mode counts for QSO
points, but not as an additional multiplier

First Initials: Record first names alphabetically, one first name per letter
of the
alphabet. The number of letters worked (unique first initials) is the
multiplier.
The name you send must be your commonly used name-- if your name is William
and you usually work as Bill, use Bill.

Score: Total Score = QSO Points x SPC x Names

Bonus Points:

 If you work the CQC club station KB0UCQ at least once, any band or
mode, Add 1000 points
 to your final score.

Power: If you submit a log you must use 5 watts or less output, CW or SSB.
There are no power multipliers, and you CAN log stations which are
operating QRP..

Awards: To Be Determined, Highest Score in each class

Submit log showing for each contact:

Band, Mode, Time UTC, Callsign, RST Rc'd, SPC, Name ,
Member Number (or power if not CQC member),
Multiplier (1 if new SPC, 1 if new first initial, 2 if both), and
QSO Points (2,3,4 or 6 as described above)

Total the QSO points and multipliers, multiply QSO points by multipliers, and
add
the 1000 point bonus if you worked KB0UCQ to derive your final score..

For sample Log and Name sheets, send SASE and one unit first class postage
to:

Jim-KG0PP-CQC; P.O.Box 31575; Aurora,CO 80041-0575

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: Bill Todd - N7MFB <bill@techline.com>
Subject: [2782] Freq/Time of 20M "Vintage" Net?
Message-ID: <1.5.4.16.19960817090415.23ff4170@wishkah.techline.com>

Hello group -

You guys seem to know just about everything so I am wondering if anyone on
the list happens to remember the time , day and freq of that 20 meter SSB
"vintage" rig net?

Thsnks - Bill
Bill Todd - N7MFB

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: John Dorson K2JHU Real Estate Consultant <jdorson@bbs.mpcs.com>
Subject: [2775] FS QRP +
Message-ID: <199608172047.QAA17151@bbs.mpcs.com>

Hi Gang.

Well I have been told by the boss that I have too many of "those QRP
things" and it was STRONGLY suggested that I go into reduction mode.

Well after giving much consideration to my overall rig situation, I have decided to consolidate. Have already sold two rigs locally and now am ready to give up my QRP +... and try for a Ten-Tec Scott.

So, for sale one hardly used QRP+ with recent 4C E-Prom upgrade which solved the keyer problem (now I key like a champ) Rig is in perfect condition. I even keep the top covered so no dust gets inside, Price \$540.00 included UPS shipping within US. Serial Number is 1043.

Also if anyone has a Ten-Tec scott they are thinking for unloading please e-mail me directly at jdorson@bbs.mpcs.com

Thank you all for reading this.

John K2JHU...
John Dorson

K2JHU only QRP...

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: jim parsons <k5rov@webstar.net>
Subject: [2785] Keyers to trade...
Message-ID: <1.5.4.16.19960817175916.1eff6552@webstar.net>

I have two keyers I would like to trade....

One is a LOGIKEY K-1. THIS IS THE CMOS super keyer II, but the commercial version, made by idiom press. It in the original box, with manual. It has one modification. I put a small spring-loaded switch on the front panel for tune-up. Of course you can give it a command to give a constant carrier, but in the middle of the night the inquiry CW would awaken my family. This way I just depress the switch to tune. It operates off of an internal 9 volt battery or 12 volts jack on the back. I bought it from HRO for a little over 100 buck a couple of years ago.

I also have an MFJ-492 Menu Driven Memory keyer. This unit is a little over two months old. I bought it new.

I am looking for a Vibrokeyer single lever paddle. I never learned iambic and don't care for the double paddles. I will trade either keyer for one of those paddles.

Contact me at k5rov@webstar.net, or packet K5ROV@AA5KG.WTX.TX.USA.

Thanks and 73

Jim, K5ROV

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: Jerry <frog@sd.cybernex.net>
Subject: [2779] parts
Message-ID: <199608172140.QAA13523@pinto.sd.cybernex.net>

Since I can't get the parts I need to modify my Sierra here in good ole Rapid City, SD (this place is 20 years behind time). Where is a good place to order the following 2 items. 1- J310, 2- fb64-101 ? I looked on Dan's Small Parts page and he does not have them.

Jerry - NR5A

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: w0rw@kktv.com
Subject: [2788] QRZ On-Line callsigns
Message-ID: <TCPSMTP.16.8.17.-11.25.42.2240783031.1781264@kktv.com>

FYI

Have you added your eMail address to the QRZ on-line callsign server? Check it out at: <http://www.qrz.com/cgi-bin/webcall> and add your eMail address.
You can also access the server by eMail directly by sending a message to "lookup@qrz.com", leave the subject blank, and in the body of the message insert the following line with as many calls as you want to look up:
"lookup w6xyz lookup w6zzz . . ."
This list ties your eMail address to your call sign. 72 de w0rw

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: BOB KELLLOGG <ae4ic@nr.infi.net>
Subject: [2781] Solar Panels - Source
Message-ID: <199608171820.0AA23227@mh004.infi.net>

Gang,

The current (Sept. 96) QST has an article in it about a charge controller for Solar Panels. Page 41, written by Mike Bryce of this list. I've been using one of these controllers and a 10 watt Solar panel obtained from Mike's company since Dayton, and I'm very pleased with it. Thinking about building another to go with some old panels in my junk box.

The company is:
Sunlight Energy Systems
2225 Mayflower NW
Massillon, Oh 44647

The Solar Panels are not cheap, but they are thin, small, sturdy and do the job. Bargains may be available in Solar Panels, but if you want something you can put to work, this is a good way to go.

(Usual disclaimer)

CUL,

Bob Kellogg, AE4IC
Prolably, but not nececelery. - Benny Hill

AE4IC TMS 1996 QS=86 States=19 Confirmed=11 DX=33
AL,CA,CT,FL,GA,IL,KS,MD,MI,MN,NC,NH,NY,OH,PA,TN,TX,WI,WY
DXCC:3B8,9A,DL,EI,EK,F,FG,G,GM,GU,HA,HB,HI,K,LU,LZ,OH,OK,OM,ON,OZ,P4,PA,SH,S
P,TI,UA,UR,VE,XE,YO,YS,YU

From owner-qrp-l@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: ka0yos@arn.net
Subject: [2789] Tejas, BCI and 30 meters
Message-ID: <199608180116.UAA14964@arnet.arn.net>

Howdy,

My father, WA0EAF, has had LOTS of broadcast Interference on his Tejas Back-Packer II. Would moving it to 30 meters solve this problem? Has anyone ever made this move?

Thanks and 72,
Joe ka0yos

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: Mel Evans <101366.3072@compuserve.com>
Subject: [2784] Thanks for the nerderly!!!
Message-ID: <960817203014_101366.3072_JHP87-3@CompuServe.COM>

Hi gang,

I knew you would come up with the answers, this list always does!

Half my mail, about 30 replies, nearly all saying the same thing, to use Laplink or a similar program to txfr programs between units.

BEST OF ALL, Chris Cartwright, N3XRV came up with the most useful bit of help I've seen in a long time. If you didn't copy his mail, basically he suggests getting the charity to supply me with a trainee volunteer "nerd" for me to show 'em how to do it, and then let him/her get on with it!

As Chris says, they get a "skill", and I'll get a rest and hopefully only have to deal with any trouble-shooting.

Thanks again guys

72 and 73 de Mel
GM6JAG
Edinburgh, Scotland UK
Home of the last HW 9

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: bobwhitewo3b@geocities.com
Subject: [2770] TMPS reports from Milliwatters
Message-ID: <19960817045007.AAA11239@ppp73.bcpl.lib.md.us>

I am looking for TMPS reports from Milliwatters. Last call to make the Oct QQ.
Thanks,
Bob White W03B WASTP 36.68W
Please reply direct to:
bobwhitewo3b@geocities.com

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: Joe Gervais <vole@primenet.com>
Subject: [2786] Re: (LONG) Re: ARS Sprint non-report

Message-ID: <199608171611.JAA29607@primenet.com>

Paul Harden <pharden@aoc.nrao.edu> wrote:

>

> Did you mention the wind?

Good question. :-) Does anyone know what 100-120mph winds translate to on the Riley scale? Maybe the QRP-L web site needs a program to convert that for us. I'm thinking it was along the lines 5.8 Rileys. The flying cow was the clincher.

Moooooooooooo....!

-Joe, KC7NEV, vole@primenet.com, AZ ScQRPions #7

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996

From: "Frank G3YCC" <g3ycc@enterprise.net>

Subject: [2771] Re: 49 er broadcast problem (long)

Message-ID: <199608170751.HAA00856@mail.enterprise.net>

What you are describing is a balanced ring mixer, if I get your drift, which is a far better mixer than the ne602. Even so, as far as us guys in Europe are concerned (we seem to suffer more than USA from BCI on 7 MHz!) - a direct conversion set of most simple designs is a pretty bad combination, or that is my opinion. Where the 49er falls down on receive in this context is the lack of front end filtering. Yes, I know it is a simple circuit and should not be criticised for not being a world beater in receivers, it was designed as a simple rig with room for experimentation and I think it has done all of that, but don't expect to cure the BCI problem without a big re-design. I am open to being proved wrong, of course!

CU QRP.

--

Frank G3YCC

Ham Radio QRP Web Page:

<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996

From: kd7s@psnw.com (Bill Jones)

Subject: [2780] Re: CW keyboards

Message-ID: <199608171337.GAA23379@sierra.psnw.com>

Joel and Group,

You asked if anyone has used the MJF 451 CW keyboard keyer. I have one and it has many nice features. I've used mine to key many different kinds of rigs.

The only complaint I have about the '451 is keeping it operational. When I first got mine I found it had an r.f.i. problem. I sent it back to MFJ for repair and after two months it came back and worked exactly as advertised. Then a couple months later it died altogether. I sent it back and this time it only took six weeks to get repaired. Shortly thereafter it quit again and I chose not to invest any more money into it.

The bottom line with the MFJ 451 keyboard is that when they work, they work very well. If you get a lemon (like I did) you'll spend more for postage and telephone calls than the original cost of the keyboard itself. My '451 spent more time at the factory than in my shack.

Have you considered using your computer as a keyboard? There are many very good shareware programs on the market.

>The question is, has anyone ever used this widget before? It would appear
>that it will work with the NC40a without problems.

>

=====
Bill Jones - KD7S <><
Sanger, California
Reply to kd7s@psnw.com
=====

From owner-qrp-l@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [2777] Re: KC2 report (under magnification)
Message-ID: <2.2.32.19960817141603.008661c0@public.compusult.nf.ca>

Hi Preston and QRP-L Gang,

I'd like to second Preston's recommendation for a big magnifying fluorescent shop light. Spend the extra money for the fluorescent one over the less expensive incandescent lightbulb magnifying lamp.

Years ago before I got wise to this I used the inexpensive incandescent lightbulb magnifier and I noticed I would fatigue a lot quicker using it to build my kits (well so what if it was 2 AM - hi). A few years ago I saw the fluorescent one on sale, at I believe Price Club, and I bought it for the \$40 or so that Preston mentioned. WHAT a difference - the fluorescent casts

a "white" light on your work and makes the magnification a lot nicer. So save the incandescent one for sewing and use the fluorescent for the serious stuff - qrp kit building - hi.

Thanks Preston for the reminder.

Cheers 73/72 Bob V01DRB/WA6ERB

At 20:36 8/15/96 -0400, you wrote:

>Gang,

> Which brings me to the magnifying lamp.

>

>You have to get one of these if you are a builder, especially with the little
>PC boards the kit guys are sending out these days. No more punched-chassis
>point to point wiring with a soldering gun going on out there unless you are
>into boat anchors. I just don't know how I managed without the magnifying
>lamp I just bought. At 39.95, from Damark, with free shipping, I considered
>it a bargain (see prior post courtesy of Dan Keen for tel no and part nos if
>you need it.) But I did read a post about a bargain lamp, and if it is
>optically good, then do buy it. You need a light with flourescent bulb (22
>watts is common), and a big magnifying glass in the middle. You've seen 'em,
>and may even see one at a flea this fall. Buy one; you'll thank me.
> Besides, the glass will be a good safety barrier against solder splashes
>getting into your eyes. And, despite their declining acuity, you still only
>get one pair of eyes, so safety is good.

>CUL es 72,

>

>Preston WJ2V

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| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@nfld.com |
| Compuserve:   70466.1405@compuserve.com |
|-----
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From owner-qrp-l@Lehigh.EDU Sat Aug 17 23:15:51 1996

From: KB0PJE /5 JFD <jdougher@wt.net>

Subject: [2769] Re: Magnifying Lamps ON SALE

Message-ID: <32159908.37E1@wt.net>

Tx fer the tip. Picked up two of them today at Hancock. One for my 49er project and another for the XYL's sewing room.

I was really struggling with seeing the U1 and U2 pins for soldering.

Rest of kit should go easier, after your tip. Thanks.
KB0PJE

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: Grover & Doris T <SIXPENCE@worldnet.att.net>
Subject: [2772] Re: Magnifying lamps?
Message-ID: <2.2.16.19960817071036.1aa707c2@postoffice.worldnet.att.net>

Jeff: I have the same problem w/cheap lamps which I fixed w/bungee cord and a brass hook.

Attach one end to top arm and the other to nearby shelf, wall, whatever.

Works fine if the area of use is rather permanent.

Did you say Martha Stewart wouldn't approve? AH, but Rube Goldberg would.

72 y Paz Grover KQ4AL

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [2773] Re: Magnifying lamps?
Message-ID: <199608171801.LAA10503@dancris.com>

At 11:13 AM 8/17/96 +0000, you wrote:

>> Did you say Martha Stewart wouldn't approve? AH, but Rube Goldberg would.

>

>

He's your mentor too? He wrote THE book, didn't he?

73,

Bob NorCal #1228, ARCI #8918, Qrp-1 #271, CQC 274

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: John Moriarity <k6qq@inet1.inetworld.net>
Subject: [2778] re: Power Measurement and Antennas (long)
Message-ID: <199608180239.WAA29776@nss2.CC.Lehigh.EDU>

John, WA8KNE wrote:

>Depending on what you are using for feedline (300, 450, 600 ohm line)
>you would replace the feedline with a noninductive dummy load

Brad, WB0CGH correctly pointed out that the feedline impedance was not the right value to use. This seems to be a common misconception that I would like to try to clear up.

The actual value is a function of the antenna itself, the feedline impedance, and the length of the feedline (plus a few other things that would complicate this discussion without adding much accuracy).

As an example, let's look at a 40 meter dipole, cut to 7040 kHz using the old standby $492/f$ formula. That turns out to be 69.9 feet long.

Let's arbitrarily put this dipole up 35 feet, a sort of average height, over good ground. Use #12 wire; you want it to stay up.

Now, run 35 feet of feedline down to the antenna tuner (which I have conveniently located right below the center of the dipole).

If the feedline is made of common 450 ohm "window" line, the impedance seen at the tuner is about $967 - j1060$ ohms! (The $-j1060$ is a capacitive reactance in series with 967 ohms of resistance.) Not even close to 450 ohms! Your dummy load needs to be a 967 ohm resistor in series with a 21.3pF capacitor. Not exactly standard values.

If, instead, we use common 300 ohm TV twin lead, the impedance at the rig will be about $220 - j320$. A little closer, but still no cigar.

Well, you say, let's stop fooling around with this balanced line stuff, and go to coax. Using RG-58 results in $24.8 + j24.7$ ohms, and a VSWR of 2.6 in a 50 ohm system. Still not good enough for me without a tuner.

O.K., let's use RG-59. Everybody knows a dipole looks like 72 ohms at resonance, right? RG-59 gives an impedance of $37.3 + j20.8$, and a VSWR of 1.74 referenced to the 50 ohms your rig would like to see.

This would probably be a useable antenna, but what gives??

Well, the impedance at the center of *this* dipole, with nothing else connected (if you could easily measure it) is actually something close to $92 + j62$ ohms!

What happened to 72 ohms? That number is in "free space", a convenient fiction used to simplify some antenna calculations before computers became available.

A half-wave dipole near earth varies from around 50 ohms to nearly 100 ohms radiation resistance. *Everything* around it affects it. You could get the VSWR down to a low value in the last (RG-59) example by pruning the antenna length.

CONCLUSIONS:

Where does this all lead? For ham radio, measuring power between the rig and the antenna tuner is probably the best point. The error due to loss in the tuner is likely to be a lot less than the error in trying to get the correct dummy load on the antenna side of the tuner.

As for simple wire antennas, in my opinion there are two basic types.

1. A single-band antenna carefully pruned to resonance, fed with coax and a current balun at the antenna.
2. A multi-band antenna, fed with a balanced line using a balanced antenna tuner.

How long should #2 be? Not critical. Try for a half wave on the lowest band you want to use; less is still useful. If you have trouble matching it, add a few more feet of feedline. Put it up as high as you can. I've been using a 51 foot dipole up 45 feet on 40 meters, and have no trouble working DX with 2 watts.

I recommend that every ham buy an antenna analysis program (I use EZNEC, there are others). Get a new copy of the ARRL Antenna Book. Learn how to use a Smith Chart; it'll amaze your friends.

Somehow we always manage to radiate something, but we can do better!

72/73,

John, K6QQ

Please pardon the bandwidth. Once I got started, I just couldn't stop! I've asked the XYL to hide my soapbox!

Qualifications? 46 years a ham, 33 years an RF EE.

From owner-qrp-1@Lehigh.EDU Sat Aug 17 23:15:51 1996
From: "William R. Colbert" <v31xe@dzn.com>
Subject: [2787] Re: QRP plus

Message-ID: <3216279F.1E9F@dzdn.com>

Re: forwarded message from Danny, K3TKS: I forwarded my comments (below) to Brad, VE7IRS, at vtronair@bctv.wic.ca but got bounced - maybe Brad reads the QRP-1 and get the comments.

>

> Brad, saw your message on the QRP-1 requesting info about the
> plus (from users). I have had mine for just over a year (ordered
> Feb. 95 - before the group order and received in late May - after
> numerous calls). It works ok - I have used it side by side with
> my FT757 sx qrp xcvs and the Yaesu receivers are considerably
> better. Particularly on the frequencies above 18 Mhz. I think
> the unit could have done with a switchable RF amp. The audio
> SCAF is outstanding. I did finally (after many calls) get the
> upgraded IC last month, to correct the keying problem and for
> the retention of the mode, filter, key speed, etc. information.
> The operation of the unit is good, however, I think if I had to
> do it again, I would probably go for either the OHR 400 kit or
> continue to look for one of the multiband Digitrex rigs. The
> little unit only pulls about 150 ma on receive and about 1.3 -
> 1.5 amp on transmit which is considerably less than any of the
> other commercial radios. As you will probably read, hear or
> otherwise know, the inability to change sidebands in a hinderance
> and for the operator that likes to do swl'ing, that does cause
> problems when USB is required on lower freqs.
> I have used the unit with my Radio Shack 2.5 amp p/s and also
> with a gel-cell and wall charger while operating from Belize.
> The unit, tho small, is not the lightest in weight - still about
> 6.5 pounds. A friend, AA5EA just got his unit back from Index
> after having the \$250. upgrade installed - he said the unit works
> well, but still glad to get his qrp TS440 back on line, only
> because the receiver is so much more sensitive. He did say that
> if one was a new ham or had not had the opportunity to use a
> different type rig before using the QRP plus, it would meet
> one's operating expectations. I agree with that.
> Well, I hope my observations help you - if you need additional
> info or have questions, feel free to contact me.
> 73 Ray